1. A power-supply unit comprising:

a main power-supply circuit and a secondary power-supply circuit, both connected to an alternating current power supply; and

an input current control circuit contained in the main powersupply circuit,

wherein the input current control circuit controls an input current to the main power-supply circuit so that harmonic current may be suppressed in a current of the summation of the input current to the main power-supply circuit and an input current to the secondary power-supply circuit.

A power-supply unit comprising:

a main power-supply circuit and a secondary power-supply circuit, both connected to an alternating current power supply, and

an input current control circuit contained in the main powersupply circuit.

wherein the input current control circuit controls an input current to the main power-supply circuit so that a current of the summation of the input current to the main power-supply circuit and an input current to the secondary power-supply circuit may be substantially proportional to an input voltage to the input current control circuit.

3. A power-supply unit comprising:

a main power-supply circuit and a secondary power-supply circuit, both connected to an alternating current power supply;

an input current control circuit contained in the main powersupply circuit; and

circuit current detection means contained in the input current control circuit.

wherein a current of the summation of an input current to the main

power-supply circuit and an input current to the secondary powersupply circuit flows in the circuit current detection means, and

wherein the input current control circuit controls the input current to the main power-supply circuit so that harmonic current may be suppressed in the current flowing in the circuit current detection means.

- 4. A power-supply unit comprising:
- a main power-supply circuit and a secondary power-supply circuit, both connected to an alternating current power supply;
- an input current control circuit contained in the main powersupply circuit; and
- circuit current detection means contained in the input current control circuit.

wherein a current of the summation of an input current to the main power-supply circuit and an input current to the secondary powersupply circuit flows in the circuit current detection means, and

wherein the input current control circuit controls the input current to the main power-supply circuit so that the current flowing in the circuit current detection means may be substantially proportional to an input voltace to the input current control circuit,

- 5. A power-supply unit as claimed in claim 3 or 4, further comprising:
- a first rectifying circuit connected between the alternating current power supply and the input current control circuit, the first rectifying circuit contained in the main power-supply circuit;
- a second rectifying circuit connected to the alternating current power supply, the second rectifying circuit contained in the secondary power-supply circuit; and
- a smoothing circuit connected to the output of the second rectifying circuit, the smoothing circuit contained in the second power-supply circuit.

- 6. A power-supply unit as claimed in claim 5, further comprising:
- a switch connected between the alternating current power supply and the first rectifying circuit.
- 7. A power-supply unit as claimed in claim 3 or 4, further comprising:
- a first rectifying circuit connected between the alternating current power supply and the input current control circuit, the first rectifying circuit contained in the main power-supply circuit;
- a reverse-current prevention diode connected to the output of the first rectifying circuit, the reverse-current prevention diode contained in the secondary power-supply circuit; and
- a smoothing circuit connected to the output of the reverse-current prevention diode, the smoothing circuit contained in the secondary power-supply circuit.
- A power-supply unit as claimed in any one of claims 3 to 7,
 wherein the input current control circuit is a boost converter.
- 9. A power-supply unit as claimed in claim 8, wherein the boost converter contains an inductance element one terminal of which is connected to one output terminal of the first rectifying circuit, a diode connected between the other terminal of the inductance element and an output terminal of the main power-supply circuit, a switch element connected between the other terminal of the inductance element and the other output terminal of the first rectifying circuit, and a smoothing capacitor connected between an output terminal of the main power-supply circuit and the other output terminal of the first rectifying circuit and the other output terminal of the first rectifying circuit.
- 10. A power-supply unit as claimed in any one of claims 3 to 7, wherein the input current control circuit is a flyback converter.
- 11. A power-supply unit as claimed in claim 10, wherein the flyback converter contains a transformer in which one terminal of a primary winding is connected to one output terminal of the first rectifying

circuit, a switch element connected between the other terminal of the primary winding and the other terminal of the first rectifying circuit, a diode connected between one terminal of a secondary winding of the transformer and an output terminal of the main power-supply circuit, and a smoothing capacitor connected between an output terminal of the main power-supply circuit and the other terminal of the secondary winding.